

ABSTRACT

The present invention is directed to a wheel condition detection and signalling device. The device includes a chamber which is capable of being attached to a wheel of a truck to rotate therewith and a pendulum having significant mass and is rotatably mounted within the chamber in such a manner that the pendulum remains generally non-rotating during rotation of the chamber. The device also includes a detector means for detecting an unacceptable condition of the wheel and emitting a signal dependent upon such condition and a transmitter for transmitting that signal to a receiver. The chamber carries a wire coil which is mounted on a core having two outside parallel arms provided with end faces. The pendulum carries a series of magnets of opposite polarity, the arrangement being such that on relative rotation of the chamber and the pendulum, the magnets will pass the end faces of the coil in adjacent relationship, and that when one magnet is adjacent one end face of the coil, another magnet of opposite polarity is adjacent the other end face of the coil whereby on relative rotation of the coils and the poles, an electric current is generated in the coils to energise the transmitter.